1 **ABSTRACT**

2   An apparatus for controlling a digital transport stream on a digital settop box has

3 independent properties in network construction between a broadcasting HE equipment or VOD

4 server and the settop box, by controlling network interfaces and streams for both an ATM network

5 and an IP network on one xDSL settop box. The apparatus can smoothly cope with network

6 construction by providing services in an ATM mode in an environment requiring high quality of

7 service, and in an IP mode in an environment requiring a low network building cost. When the

8 broadcasting is connected to the ATM network and the VOD is connected to the IP network, the

9 apparatus can provide services without incorporating the networks. In addition, as compared with

10 the ATM mode, the IP mode processes decapsulation and IP routing of an MPEG transport stream

11 packet in a software type, and thus does not require special hardware. That is, both the ATM mode

12 and the IP mode can be controlled in the same hardware construction as the ATM mode. When

13 the network is connected through the Ethernet without using the xDSL, the apparatus can provide

14 the broadcasting or VOD service in the IP mode.